

## THE DETACHABLE TEMPERATURE CONTROLLER

### ABSTRACT

A detachable temperature sensor has two parts, a switch to control a temperature and a magnetic socket to connect the sensor to a power source. The switch has a plug to connect with an electrical appliance and electrical contacts and an iron sheet to connect with the magnetic socket. The magnetic socket has a housing and is connected to the power cord to a wall socket. The magnetic socket includes power inlet contact blades and a permanent magnetic iron sheet. When the switch and the socket are connected, a magnetic circle connects the permanent magnetic iron sheet with the iron sheet of the switch to connect the switch to the power. While in use, if the magnetic socket is pulled, the magnetic socket separates from the sensor switch, cutting power to the electrical appliance.